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IS : 1829 (Part I) - 1978

(Reaffirmed 2005)

Indian Standard
SPECIFICATION FOR
LIBRARY FURNITURE AND FITTINGS

PART I TIMBER

(First Revision)

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR LIBRARY FURNITURE AND FITTINGS

PART I TIMBER

(*First Revision*)

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Indian Standard

SPECIFICATION FOR LIBRARY FURNITURE AND FITTINGS

PART I TIMBER

(First Revision)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 22 February 1978, after the draft finalized by the Library Buildings, Fittings and Furniture Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 The Government of India, State Governments and University Grants Commission have under way extensive schemes for the development of library facilities and the setting up of new libraries in various parts of the country. Keeping this in view IS : 1553-1976* was prepared to serve as a guide relating to basic elements of design pertaining to library buildings. As the next step it was felt that the furniture and fittings that go into making the library functional and useful should also be appropriately designed and the minimum requirements laid down. This standard lays down the general requirements of items of timber furniture used in libraries, leaving enough scope for the designer to vary the actual shape, aesthetics, etc.

0.3 This standard was first published in 1961. This revision has been prepared to include the latest specifications for various types of timber used in the manufacture of library furniture and fittings. The dimensions for different items of furniture have been modified and the size and shape of the control region altered, for optimum utilization of space. The requirements for classifier's table and accession table¹ have been deleted.

0.4 In the formulation of this standard due weightage has been given to international co-ordination among the standards and practice prevailing in different countries in addition to relating to the practices in the field in this country.

0.5 This standard is one of a series of Indian Standards covering requirements of libraries.

*Recommendations relating to primary elements in the design of library buildings
(first revision).

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements for the following items of wooden furniture meant for use in a library:

- a) Unit book rack,
- b) Bay guide holder,
- c) Book trolley,
- d) Catalogue cards tray and cabinet,
- e) Catalogue cards box,
- f) Catalogue cards work tray,
- g) Control region fittings,
- h) Charging trays,
- j) Reading room table,
- k) Study table,
- m) Periodicals display rack,
- n) Chairs, and
- p) Display stand.

2. MATERIALS

2.1 Wood particle boards required for the manufacture of various items of furniture shall conform to IS: 3087-1965† and shall be of type FPSI or FPTH, that is, flat pressed single-layer board or flat pressed three-layer board. Wood particle board used for wooden racks, cabinets, etc, which require baking paints or enamel finishes shall be manufactured with only BWR type of adhesives like phenol formaldehyde.

2.2 Veneered particle boards shall conform to IS: 3097-1965‡. Both interior and exterior grades of veneered particle boards can be used where the furniture items are to be finished with air-drying paints, or varnishes. Where over-baking paints, enamel or varnishes are to be used, only exterior grade veneered particle boards shall be used.

*Rules for rounding off numerical values (*revised*).

†Specification for wood particle boards (medium density) for general purposes.

‡Specification for veneered particle boards.

2.3 Plywood — Plywood used in the manufacture of various items of furniture and fittings for use in libraries shall conform to IS : 303-1975*. Any of the three grades, namely BWR, WWR and CWR of plywood may be used for items which are to be finished with air-drying paints, enamel or varnishes. Where items are finished with oven-drying paints, enamel or varnishes, only BWR grade of plywood shall be used. The plywood used shall not be inferior to Type BB. In case veneered plywood is used it shall conform to IS : 1328-1970†.

2.4 Blockboards — Blockboards shall conform to IS : 1659-1969‡ and shall be of Grade 1 or 2, where air-drying finishes are adopted and Grade 1 only where oven-drying finishes are adopted in the manufacture of furniture items and fittings prescribed in this standard.

2.5 Timber — Any of the species of timber recommended for furniture and cabinet making in IS : 399-1963§ shall be used in the manufacture of wooden furniture and fittings used in libraries. The timber used shall have a moisture content as given in IS : 287-1973||.

2.6 Adhesive — Adhesive used for joinery work shall conform to IS : 849-1957¶, IS : 851-1957**, IS : 852-1969†† or IS : 4835-1968‡‡.

2.7 Wood Screws — Wood screws shall conform to IS : 6760-1972§§.

2.8 Paints, enamels and varnishes shall conform to the relevant Indian Standards, wherever they exist, for air-drying as well as stoving finishes.

3. UNIT BOOK RACKS

3.1 Terminology — For the purpose of this standard the following definitions shall apply:

3.1.1 Bay — The part of the face of a rack between two consecutive uprights.

3.1.2 Double Faced Unit Rack — A rack consisting of three uprights forming four open bays, two on each face.

*Specification for plywood for general purposes (*second revision*).

†Specification for veneered decorative plywood (*first revision*).

‡Specification for blockboards (*first revision*).

§Classification of commercial timbers and their zonal distribution (*revised*).

||Recommendations for maximum permissible moisture content of timber used for different purposes (*second revision*).

¶Specification for cold setting casein glue for wood.

**Specification for synthetic resin adhesives for construction work in wood.

††Specification for animal glue for general wood working purposes (*first revision*).

‡‡Specification for polyvinyl acetate dispersion-based adhesive for wood.

§§Specification for slotted countersunk head wood screws.

3.1.3 Label Holder — A groove along the front edge of the shelf plank designed to hold the shelf label so as to allow its movement from end to end.

3.1.4 Partition or Bay Stop — A divider fitted between the bay-pairs opening into the two opposite sides of a unit book rack.

3.1.5 Shelf Plank — A horizontal support for books, spanning a bay.

3.1.6 Single Faced Unit Rack — A rack consisting of three uprights forming two bays.

3.1.7 Upright — A vertical supporting element of a rack.

3.2 Dimensions and Tolerances

3.2.1 The overall dimensions of the unit book racks shall be as given in Table 1. Generally 350 mm centre-to-centre distance should be adopted for shelves.

3.2.2 Tolerances — The overall dimensions specified in Table 1 shall not vary by more than ± 5 mm.

3.2.3 The wooden book racks shall be rectangular at all the measurable surfaces within a tolerance of ± 8 mm between the two diagonals of the rectangle.

TABLE 1 DIMENSIONS OF UNIT BOOK RACKS

(Clauses 3.2.1 and 3.2.2)

All dimensions in millimetres.

SL No.	UNIT BOOK RACK	HEIGHT	WIDTH	DEPTH
(1)	(2)	(3)	(4)	(5)
i)	Double-faced	2200	2000	450
ii)	Single-faced	2200	2000	300

3.3 Fabrication

3.3.1 Each bay shall have seven shelf planks out of which three (the topmost, central and the bottommost) shall be fixed and four shall be adjustable.

NOTE — The heavy and outsize books should be kept on their sides instead of on their bottom edges.

3.3.2 Uprights — The uprights shall be of not less than 35 mm thickness.

3.3.3 Single Faced Unit Racks — Single faced unit racks shall be fabricated according to the specifications prescribed in 5 of IS : 7070-1973.*

3.3.4 Double Faced Unit Racks

3.3.4.1 A typical illustration of a double faced unit rack is shown in Fig. 1.

3.3.4.2 Shelf planks — The thickness of shelf planks shall be not less than 25 mm. The depth of the shelf plank on top, centre and bottom of the rack shall be 450 mm. The depth of the adjustable shelf plank shall be 220 mm to allow space for the partition to be inserted between the bay pairs, opening into opposite faces.

3.3.4.3 Partition — To prevent the books in one face from getting mixed up with those of the other face, a partition (or bay stop) shall be provided. The partition shall start from the bottom of the topmost fixed plank and stop 15 cm above the top of the bottommost fixed plank.

3.3.5 Label Holder — Label holder shall be wrought along the front edge of each shelf plank and shall admit card strips 15 mm wide. It shall be in the form of a wedge shaped groove from end-to-end to hold the shelf label strips.

3.4 Loading — Notwithstanding the provisions of minimum thickness the shelf planks shall be designed to carry a static load of 40 kg per shelf plank per bay; and the bottom shelf plank in case of double faced unit racks shall be designed to carry a load of 80 kg.

4. BAY GUIDE HOLDERS

4.1 The external dimensions of bay guide holders shall be 400 × 200 mm. It shall be provided with a groove arrangement so that the guide could be slid along the length. It shall also have hooks for suspension from a rod or from rings above.

5. BOOK TROLLEY

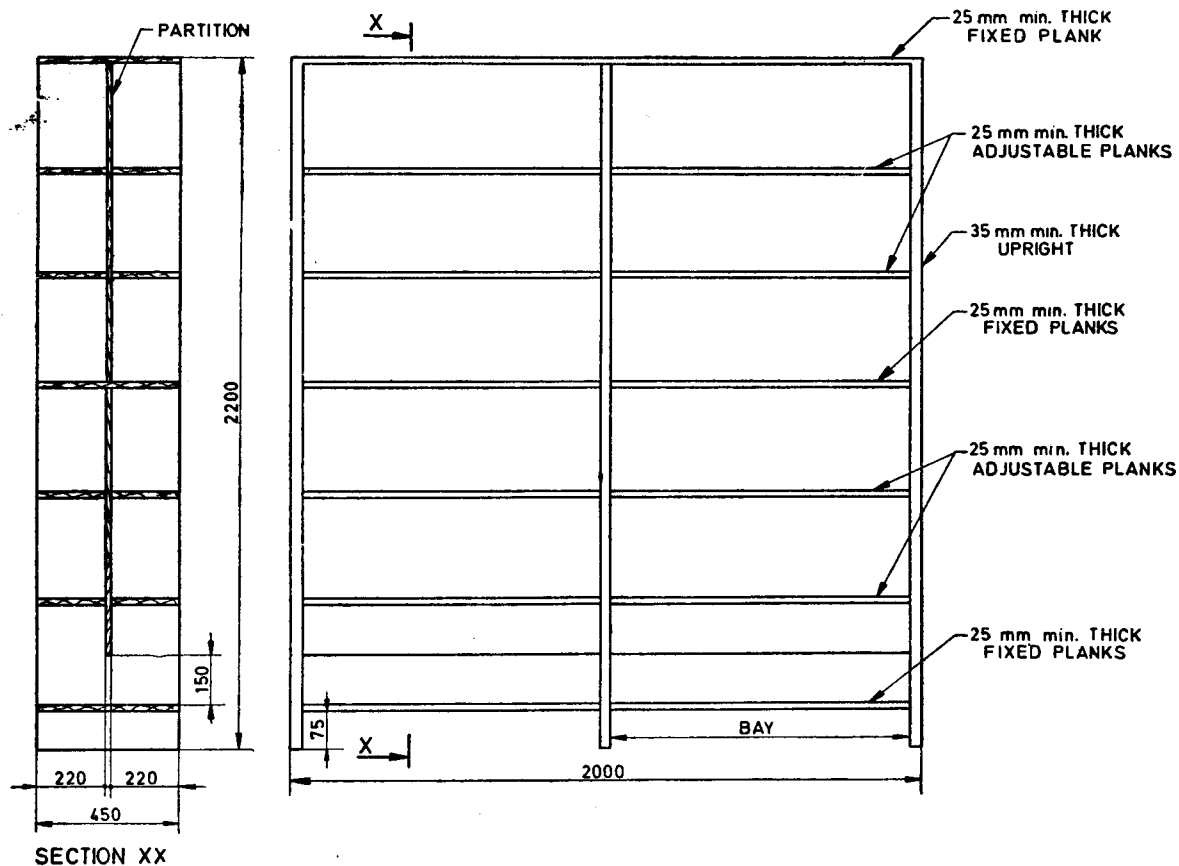
5.1 The essential features of a book trolley are shown in Fig. 2.

5.2 The trolley shall have two pairs of sloping shelves and one flat bottom shelf for books of large size.

5.3 The height of the trolley shall be 750 mm the same as that of a table.

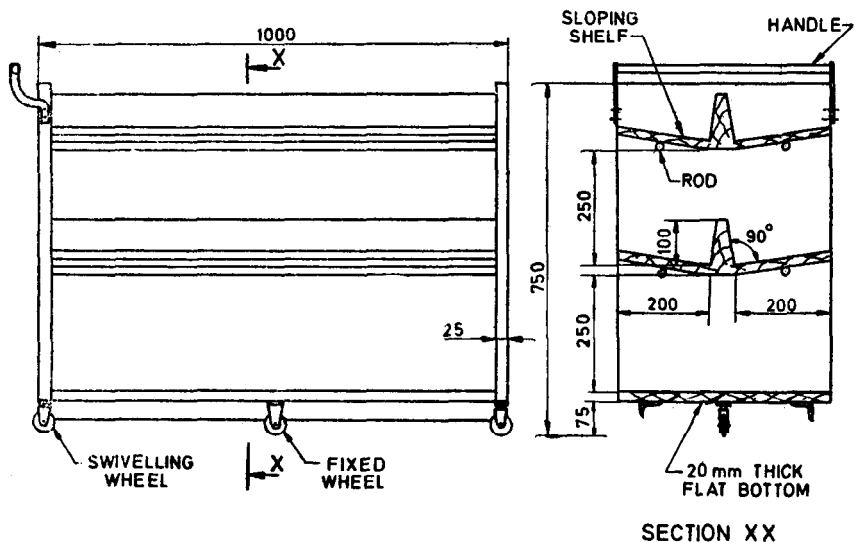
5.4 The planks shall be suitably supported such as by iron rods and the uprights rigidly connected to each other and shall fulfil the loading requirements specified under 3.4.

*Specification for wooden shelving racks (adjustable and non-adjustable type).



All dimensions in millimetres.

FIG. 1 TYPICAL SKETCH OF DOUBLE FACED UNIT BOOK RACK



All dimensions in millimetres.

FIG. 2 TYPICAL ILLUSTRATION OF BOOK TROLLEY

5.5 Suitable protection may be provided at the bottom corners and the ends of uprights to minimize damage due to knocking against other furniture or fittings or walls or pillars.

5.6 The trolley shall be fitted with four rubber tyred ball-bearing wheels; one of the swivelling type at each end and two of the fixed type in the centre.

6. CATALOGUE CARDS TRAY AND CABINET

6.1 Dimensions and Construction of Catalogue Cards Tray

6.1.1 The size of catalogue cards tray is based on the card size of 125×75 mm*.

6.1.2 Each tray shall be constructed as shown in Fig. 3.

6.1.2.1 The external dimensions of the tray shall be $155 \times 100 \times 430$ mm. The side and back planks shall be 12 mm thick and 55 mm high. The front plank of the tray shall be 155 mm wide and 100 mm high.

6.1.2.2 A central strip (not shown in Fig. 3) shall be provided at the bottom of the tray to receive a device to prevent the sliding of the card rest. It shall be 30×5 mm.

*International catalogue card size.

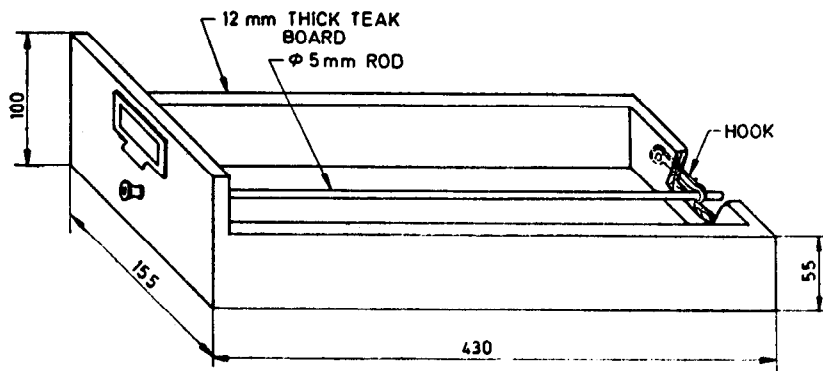


FIG. 3 TYPICAL ILLUSTRATION OF CATALOGUE CARDS TRAY

6.1.2.3 The bottom of the tray shall also be fitted with two reapers 25×5 mm (not shown), properly centred and inter-connected. The bottom shall not be covered in order to prevent collection of dust.

6.1.2.4 A brass rod or a rod of similar corrosion resisting material, 5 mm in diameter shall be fitted right through the centre of tray to lock up the cards. A knob shall be screwed to the rod projecting through the face plank, to permit pulling out of the rod. The rod shall be held at the back of the plank with a hook.

6.1.2.5 To prevent the tray from being accidentally pulled entirely out of the socket, a self locking gravity catch shall be fixed suitably.

6.1.2.6 A brass label holder shall be provided at the face plank just above the centre. The face plank may also be fitted with a knob or a handle to pull the tray.

6.1.2.7 A movable card rest with a hole in the appropriate position for the brass rod to pass through it shall be fitted. A fixed card rest adjacent to the face plank or a suitable slope of the rear of the face plank, shall also be provided.

6.2 Dimensions and Construction of Catalogue Cards Cabinet

6.2.1 The cabinet shall consist of two parts:

- a) The cabinet, and
- b) The stand on which the cabinet rests.

6.2.2 Dimensions — The dimensions of the cabinet shall depend upon the number of trays it carries. The overall dimensions of the catalogue cards cabinets having different number of trays shall be as given in Table 2.

TABLE 2 DIMENSIONS OF CATALOGUE CARDS CABINETS

(Clause 6.2.2)

All dimensions in millimetres

SL No.	NUMBER OF TRAYS	LENGTH	HEIGHT		DEPTH
			Stand	Body	
(1)	(2)	(3)	(4)	(5)	(6)
i)	36	1090	710	675	455
ii)	30	1090	840	560	455
iii)	24	1090	840	455	455
iv)	20	915	840	455	455
v)	16	710	840	455	455
vi)	12	560	710	455	455
vii)	9	560	710	345	455

6.2.3 Construction

- A typical illustration of the cabinet consisting of 36 trays in 6 columns of 6 trays each is shown in Fig. 4.
- The planks used for the sides, back, bottom and top shall be 20 mm thick.
- The front of the cabinet shall be divided into six vertical columns by means of five intermediate planks 20 mm thick and 100 mm wide.
- The front of the columns shall be connected with the back of the cabinet by pairs of cross bearers at regular intervals to give a clear socket opening for the tray to fit in. The cross bearer shall have 20 mm thickness and 25 mm width.
- Suitable arrangements shall be made to lock at least two consecutive columns by one device.
- A pull out slide, where desired, may be provided within the cabinet.

7. CATALOGUE CARDS BOX

7.1 The catalogue cards box shall be constructed as shown in Fig. 5.

7.2 The box and its lid shall be of equal height, so that when fully open each of them rests on the table top.

7.3 The bottom part shall be provided with a brass label holder and a pair of flat brass hooks. The lid shall have the eyes to take the hooks.

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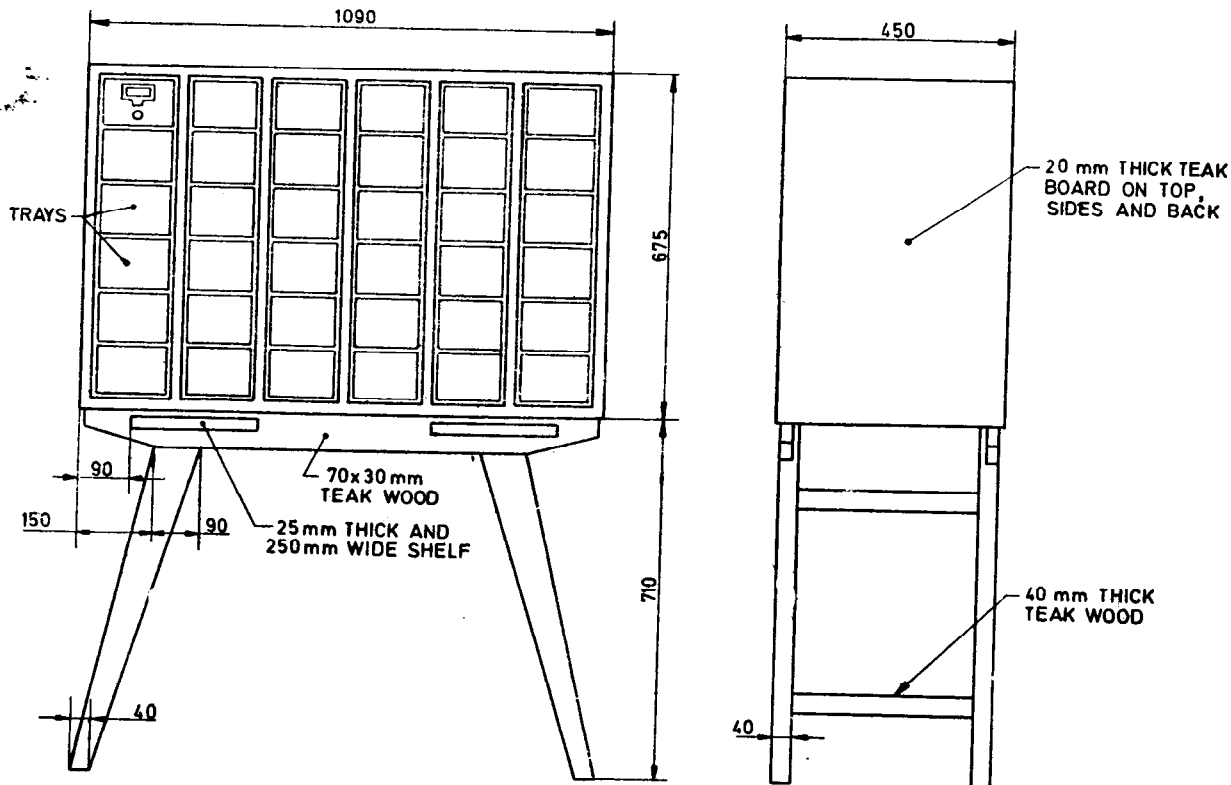
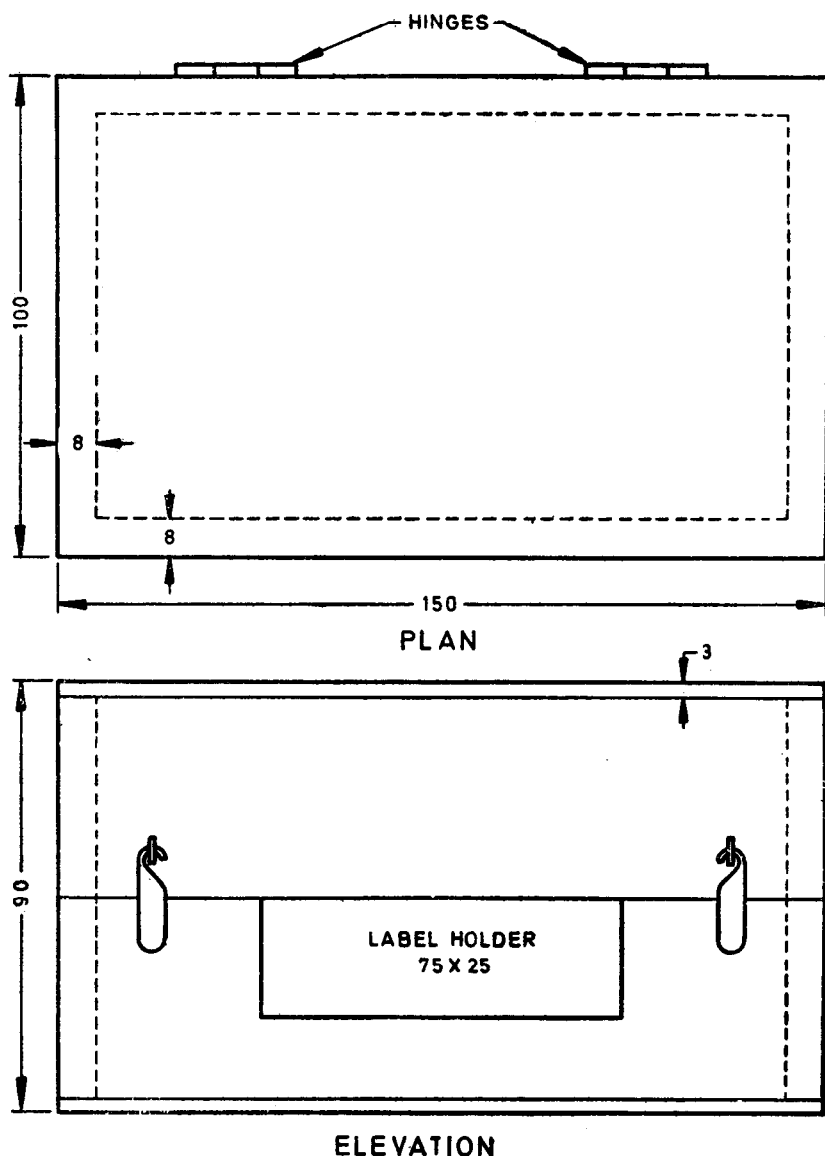


FIG. 4 TYPICAL ILLUSTRATION OF CATALOGUE CARDS CABINET
(SIX COLUMNS OF SIX TRAYS EACH)



All dimensions in millimetres.

FIG. 5 TYPICAL ILLUSTRATION OF CATALOGUE CARDS BOX

8. CATALOGUE CARDS WORK TRAY

8.1 Catalogue cards work tray is functionally the same as the catalogue cards box but it is more like a tray (*see* Fig. 6). A fixed and a movable card rest shall be provided as in 6.1.2.7.

9. CONTROL REGION FITTINGS

9.1 Control Region

9.1.1 The size of control region shall depend on the following:

- a) Size of library,
- b) Clientele of the library,
- c) Number of books issued out, and
- d) Records to be maintained at the counter.

9.1.2 The dimensions of control region shall depend on number of persons operating the control region. The essential dimensions required to enable operation per person shall be as indicated in Fig. 7.

9.2 Counter — The counter shall have three shelves all round except at places intended to be occupied by the circulation staff as shown in Fig. 7, where kneehole space, 600 mm wide, shall be provided.

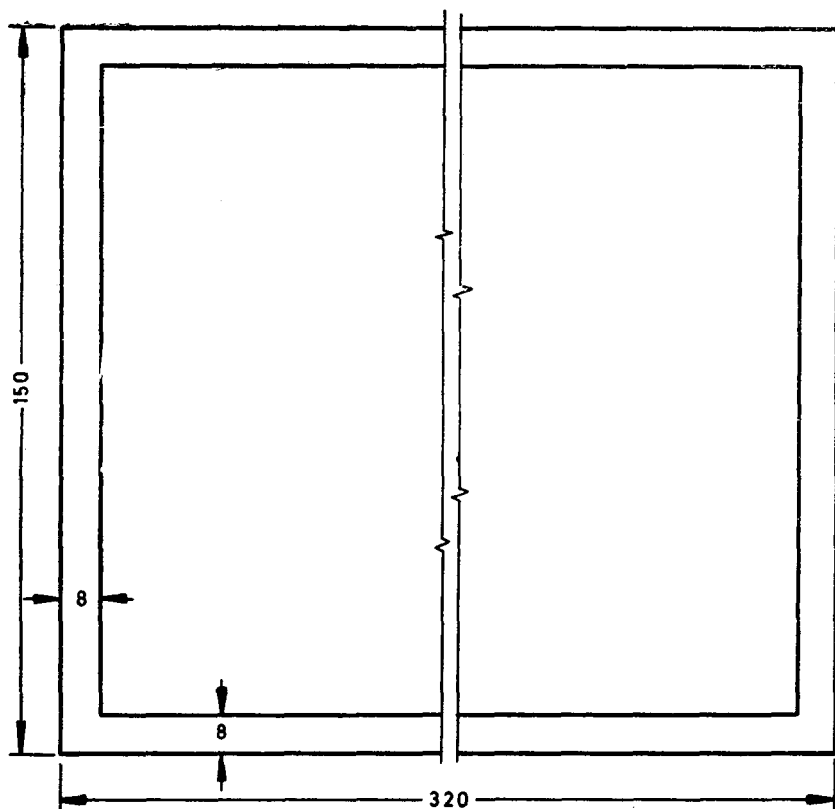
9.2.1 At a height of 135 cm from the ground there shall be a transparent plate shelf or a wooden shelf with plastic laminates all around. This shelf shall be cantilevered and there shall be no vertical support near the working edge of the counter so that an un-interrupted space is available on the counter deck for free movement of trays. The vertical barrier between the counter deck and the shelf at the farther edge shall be of wood with plastic laminates or veneers. If the counter is to be against a wall the side which touches the wall may not be provided with the shelf.

9.3 Control Gates — The control gates shall consist of either a single leaf door with a gravity hinge or another similar device. The clear passage when the central gate is open, shall be approximately 500 mm.

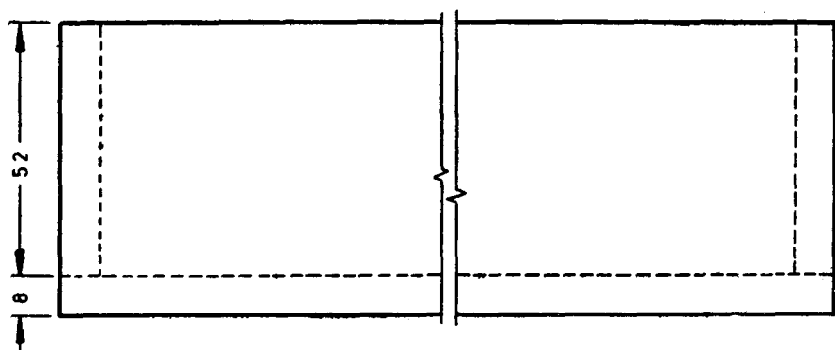
10. CHARGING TRAYS

10.1 Charging trays are meant for containing readers' tickets. The trays may have one, two, three or four compartments.

10.2 The essential dimensions of the charging trays depend upon the size of the tickets issued. The overall dimensions of various trays shall be according to Newark Charging System or Browne Charging System as given in Table 3. The outer planks shall be of 18 mm thickness and the inner partitions for making compartments shall be 12 mm thick.



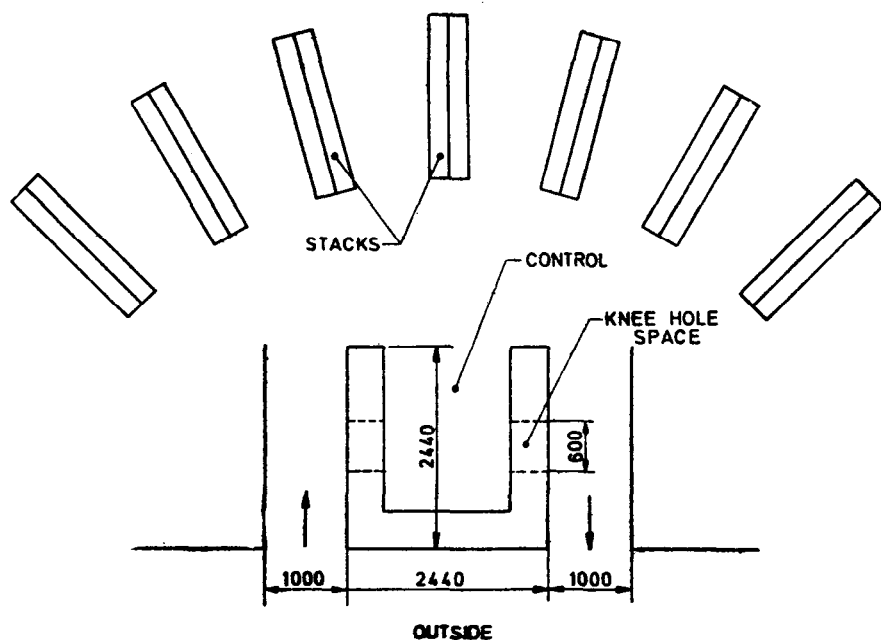
PLAN



ELEVATION

All dimensions in millimetres.

FIG. 6 TYPICAL ILLUSTRATION OF CATALOGUE CARDS WORK TRAY



All dimensions in millimetres.

FIG. 7 TYPICAL ARRANGEMENT OF CONTROL REGION

TABLE 3 DIMENSIONS OF CHARGING TRAYS

(Clause 10.2)

All dimensions in millimetres.

SL No.	TYPE OF CHARGING TRAY	NEWARK CHARGING SYSTEM				BROWNE CHARGING SYSTEM			
		Length	Width	Height (With Cover)	Height (With- out Cover)	Length	Width	Height (With Cover)	Height (With- out Cover)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
i)	Tray with one compartment	405	120	180	125	405	95	100	75
ii)	Tray with two compartments	405	215	180	125	405	165	100	75
iii)	Tray with three compartments	405	310	180	125	405	235	100	75
iv)	Tray with four compartments	405	405	180	125	405	305	100	75

11. READING ROOM TABLE

11.1 The size of the reading room table shall be 900 mm $\times$ 600 mm for single and 2 400 mm $\times$ 600 mm for three readers. A typical illustration of the reading room table is shown in Fig. 8. The height of the table top shall be 750 mm.

11.2 Kneehole Space — The minimum kneehole space per reader shall be 450 mm deep, 650 mm high and 600 mm wide.

11.3 Foot Rest — The footrest, either in the form of a fixed rod or as a separate pipe shall be provided at the height of 150 mm from the floor.

12. STUDY TABLE

12.1 Study table shall have the same dimensions as the reading room table for a single reader, that is, 900 mm $\times$ 600 mm. It may have additional provisions for the following:

- a) Side drawers with locking arrangement, and
- b) Shelf space for keeping documents on the top of the table with lighting arrangement

12.2 A typical illustration of the study table is shown in Fig. 9.

13. PERIODICALS DISPLAY RACK

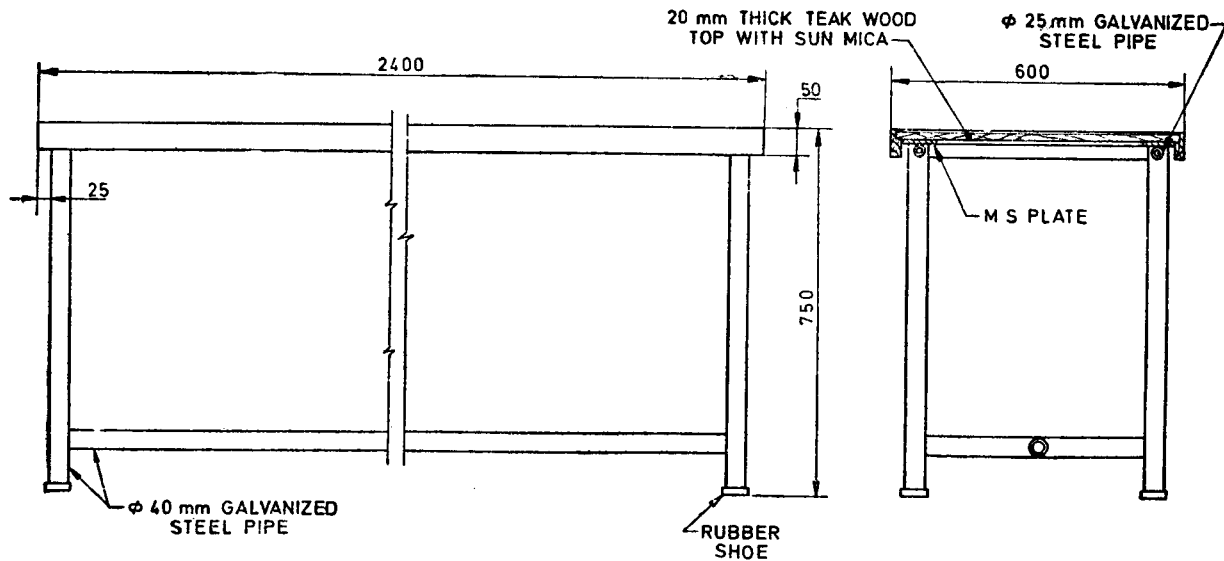
13.1 A typical illustration of a periodicals display rack is shown in Fig. 10.

13.2 Dimensions — The overall dimensions of the periodicals display rack shall be as follows:

- a) Height — 1 910 mm
- b) Width — 1 435 mm
- c) Depth — 405 mm

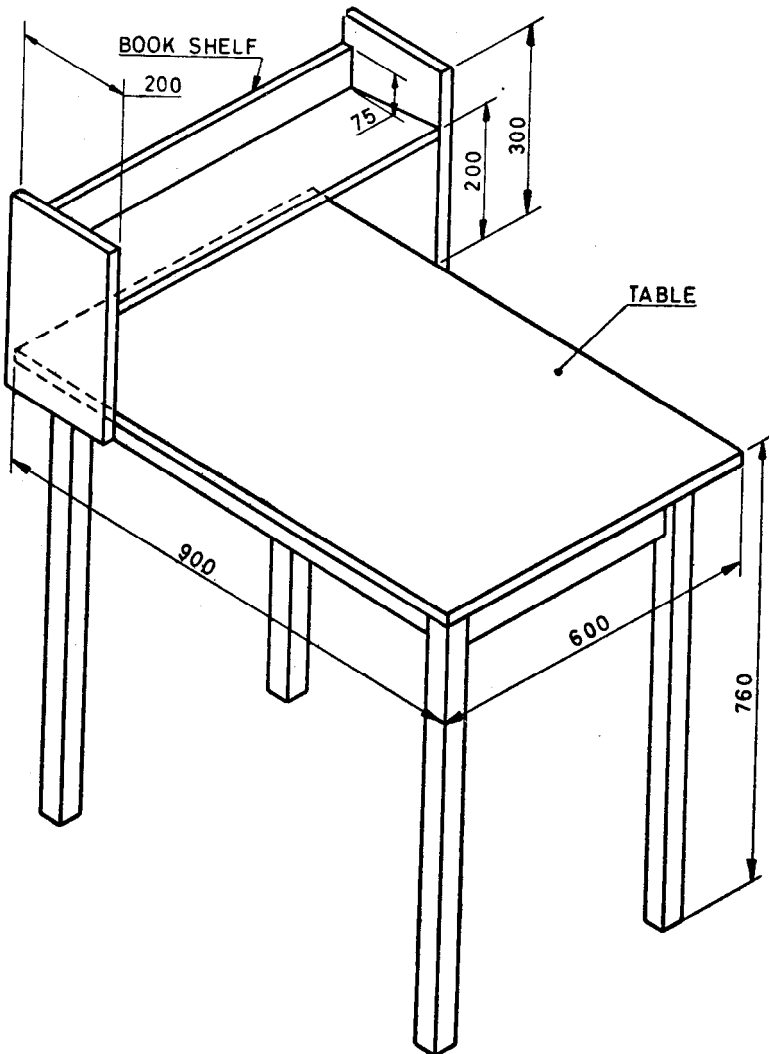
13.3 Construction — A periodicals display rack shall consist of twentyfive compartments in five rows. Each compartment shall be of the size 265 mm $\times$ 345 mm and it shall be fitted with display shelf having a handle cum label holder.

13.3.1 The outer sides of the rack shall be of 18 mm thick teak board. The uprights, top and bottom shelves shall also be made of teak board of 18 mm thickness. Intermediate horizontal shelves shall be of 12 mm commercial ply and the display shelves shall be of teak wood frame with 5 mm teak ply.



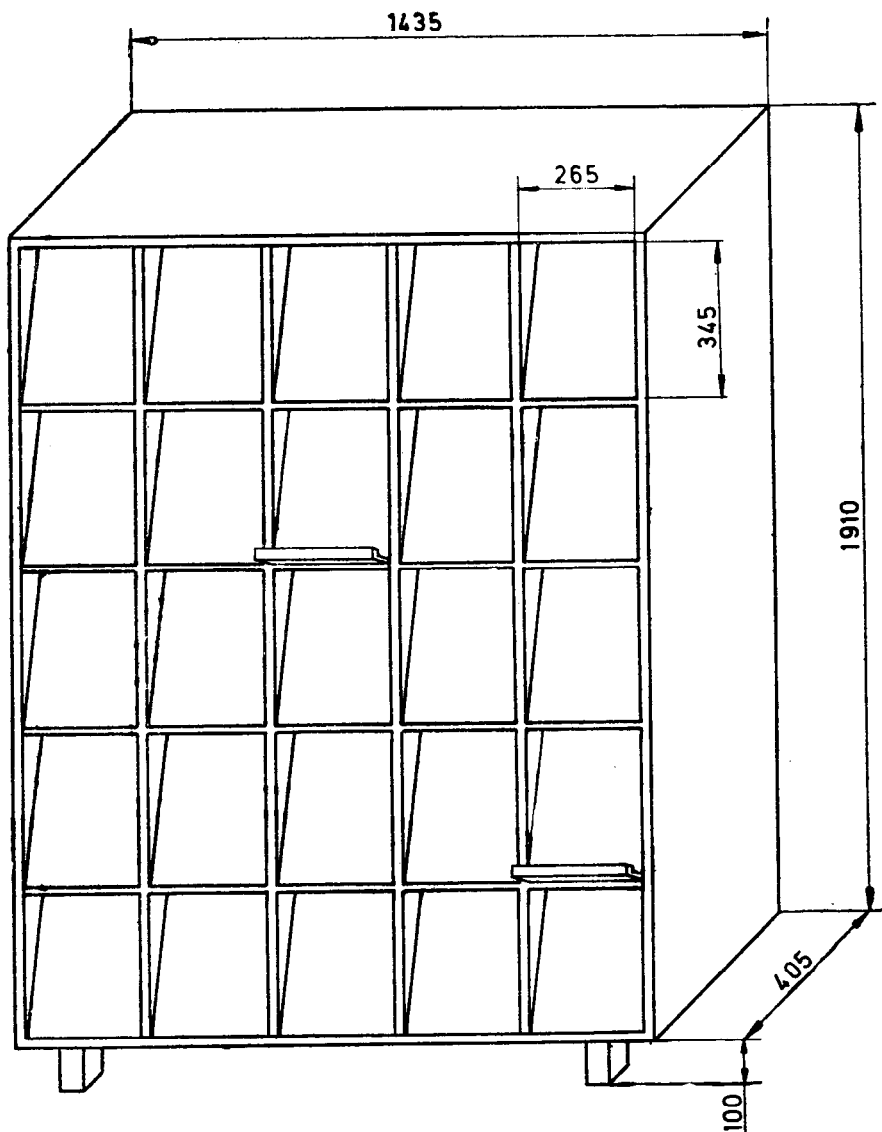
All dimensions in millimetres.

FIG. 8 TYPICAL ILLUSTRATION OF READING ROOM TABLE



All dimensions in millimetres.

FIG. 9 TYPICAL ILLUSTRATION OF STUDY TABLE



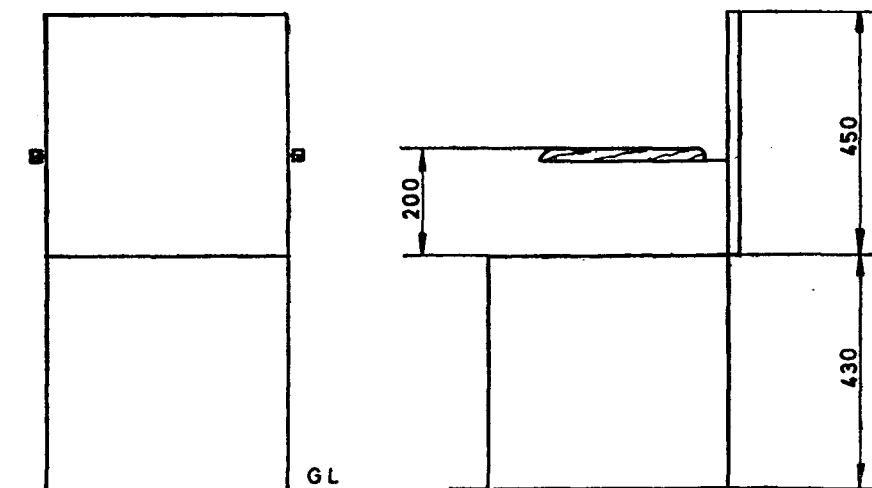
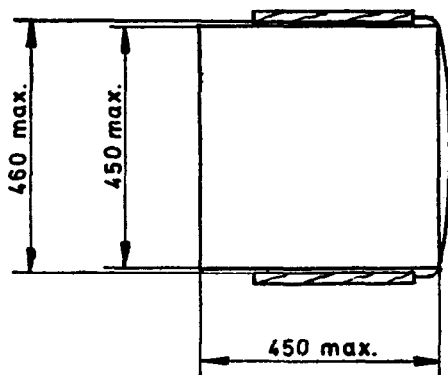
All dimensions in millimetres.

FIG. 10 TYPICAL ILLUSTRATION OF PERIODICAL DISPLAY RACK

14. CHAIRS

14.1 The essential dimensions of wooden chairs shall be as given in **14.1.1** to **14.1.6** read with Fig. 11.

14.1.1 The height of the seat of the chair above floor level shall be 430 mm.



All dimensions in millimetres.

FIG. 11 LINE SKETCH OF CHAIR WITH ARMRESTS,
SHOWING ESSENTIAL DIMENSIONS

14.1.2 Effective Depth of Seat — Maximum effective depth of the seat shall be 450 mm. This shall be measured from a vertical line through the centre of the front edge of the seat to a vertical line through the centre of the back edge of the seat.

14.1.3 Seat Slope — The seat shall be either horizontal or sloping downwards between 2° to 3° from front to back.

14.1.4 Width of Seat — The minimum width of the seat shall be 450 mm.

14.1.5 Arm-Rests — The minimum distance between the insides of the arms should be not less than 460 mm. The height of the elbow rest above the effective seat height shall be 200 mm. The arm rest may have a set back of 75 mm from the front edge of the seat.

14.1.6 Height of Back Rest — The height of back rest above the top of the seat shall be 450 mm.

14.2 The chairs shall be fitted with noise-prevention pads in the legs.

14.3 The chair seats shall not be hard or upholstered but shall preferably be of woven material to ensure ventilation and slight yielding when in use.

14.4 The back rest of the chair shall be curved in plan or so shaped to give comfort to the body. It shall neither be too curved to restrict the movement of the back nor be too flat.

14.5 The height of the seat for counter chair shall depend upon the height of the counter.

15. DISPLAY STAND

15.1 Display stand shall be of 910 mm × 910 mm or 1 220 mm × 1 220 mm size. It shall be made of any soft surface board like perforated board, straw board, etc. It shall be capable of holding pins.

15.2 Display stand may either be single or double as required.

16. FINISHING

16.1 Wood Panel Components — Wood panel components shall be given a coat of primer paint and filler. Wood putty shall be applied to all the surfaces requiring filling and shall conform to the relevant Indian Standards. After preparing the surfaces two coats of enamel or paint, that is, one under-coat and one finishing coat shall be given. Alternatively, the surfaces may be stained and polished. The finishing coat shall be of synthetic air-drying enamel or stoving enamel for wood work. The enamel or paint shall be of exterior type and of a finish and colour as required.

16.1.1 In case of stoving enamels or paints, the components of the finished furniture items shall be stored at suitable temperature and for suitable time as advised by the manufacturer of the enamel.

16.2 The finish shall be smooth, uniformly applied and free from visible defects. It shall be well based and shall not readily chip or flake. The dry film thickness shall be not less than 0.10 mm.

16.3 All other components shall be finished in colour as agreed to between the purchaser and the manufacturer.

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AMENDMENT NO. 1 JANUARY 1992
TO
IS 1829 (Part 1) : 1978 SPECIFICATION FOR LIBRARY
FURNITURE AND FITTINGS
PART 1 TIMBER
(First Revision)

(*Page 5, clause 2.5*) — Insert the following new clause after **2.5** and renumber the subsequent clauses accordingly:

“2.6 Medium Density Fibre Boards (MDF) — MDF where used for the manufacture of various items of furniture fittings for use in library having flat surfaces shall conform to IS 12406 : 1988 ‘Specification for medium density fibre boards for general purposes’ and shall be of Interior Grade IGSB if air drying finishes are adopted and Exterior Grade EGSB if oven drying finishes are adopted.”

(CED 35)

**AMENDMENT NO. 2 FEBRUARY 1997
TO
IS 1829 (PART 1) : 1978 SPECIFICATION FOR
LIBRARY FURNITURE AND FITTINGS**

PART 1 TIMBER

(First Revision)

(Page 3, clause 0.5) — Insert the following new clause after 0.5 and renumber the subsequent clause:

“0.6 A scheme of labelling environment friendly products to be known as ECO Mark is being introduced at the instance of the Ministry of Environment and Forests (MEF), Government of India. The ECO Mark shall be administered by the Bureau of Indian Standards (BIS) under the *BIS Act*, 1986 as per the Resolution No. 71 dated 21 February 1991 published in the Gazette of the Government of India. For a product to be eligible for ECO Mark, it shall also carry the Standard Mark of the BIS, besides meeting additional optional environment friendly requirements.”

(Page 4, clause 2.1) — Insert the following at the end of the clause:

“For ECO Mark, the particle board shall conform to the requirements specified in IS 3087:1985 ‘Specification for wood particle board (medium density) for general purposes (*first revision*)’ for ECO Mark purposes.”

(Page 4, clause 2.2) — Insert the following at the end of the clause:

“For ECO Mark, the veneered particle board shall conform to the requirements specified in IS 3097 : 1980 ‘Specification for veneered particle boards (*first revision*)’ for ECO Mark purposes.”

(Page 5, clause 2.3) — Substitute the following for the existing clause:

“2.3 Plywood — Plywood used shall conform to IS 303 : 1989 ‘Specification for plywood for general purposes (*third revision*)’.

2.3.1 For ECO Mark the plywood shall conform to the requirements specified in IS 303 : 1989 for ECO Mark purposes.”

(Page 5, clause 2.4) — Insert the following at the end of the clause:

“For ECO Mark, the block board shall conform to the requirements specified in IS : 1659 - 1990 ‘Specification for block boards (*third revision*)’ for ECO Mark purposes.”

(Page 5, clause 2.5) — Substitute the following for the existing clause:

“2.5 Timber — Any species of timber specified in IS 13622:1993 ‘Indian timbers for furnitures and cabinets — Classification’ shall be used in the manufacture of library furniture and fittings.

2.5.1 For ECO Mark, only species of timber as specified in IS 13622:1993 from sources other than natural forests, such as timber from industrial and social forestry plantations, shade trees from tea and coffee estates, etc, shall be used for the manufacture of library furniture and fittings.”

[Page 5, clause 2.6 (see also Amendment No. 1)] — Insert the following at the end of the clause:

‘For ECO Mark, the medium density fibreboard shall conform to the requirements specified in IS 12406:1988 for ECO Mark purposes.’

(Page 22, clause 16) — Insert the following new clauses after 16:

‘17 ADDITIONAL REQUIREMENTS FOR ECO MARK

17.1 General Requirements

17.1.1 The product shall conform to the requirements of quality and performance as specified in the standard.

17.1.2 The manufacturer shall produce to BIS environmental consent clearance from the concerned State Pollution Control Board as per the provisions of the *Water (Prevention and Control of Pollution) Act, 1974* and *Air (Prevention and Control of Pollution) Act, 1981* alongwith the authorization, if required under the *Environment (Protection) Act, 1986*, while applying for ECO Mark.

17.2 Specific Requirements

The product shall conform to the specific requirements given for ECO Mark under relevant clauses of this standard.

NOTE — The manufacturer shall provide documentary evidence by way of certificate or declaration to this effect to the Bureau of Indian Standards while applying for ECO Mark.

18 MARKING

18.1 The library furniture and fittings shall be marked with a suitable mark identifying the manufacturer.

18.1.1 They may also be marked with the Standard Mark.

18.2 The criteria for which the product has been labelled as ECO Mark.’

(CED 35⁷)